THE OLD TIMER'S BULLETIN

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Published for the Old Time Wireless Operator, Historian and Collector

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Devoted to research and documentation of the history of wireless communications.

Member:
American Association of Museums
Regional Conference of Historical Agencies

ANTIQUE WIRELESS ASSOCIATION, INC.

HOLCOMB, NEW YORK 14469

Founded 1952. Chartered as a non-profit corporation by the State of New York

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News Journal
OLD TIMERS BULLETIN

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THE MUSEUM

Our new Electronics Communication Museum is open every Wednesday and Sunday as well as other times for appointments or special events -- the most recent during the local Freedom Festival on Fourth of July.

Board Members have volunteered on a scheduled basis to open the building and show visitors the many displays. Attendance of both local residents and out-of-state vacationists has been surprisingly good.

Several working-demonstration exhibits have yet to become operational, and numerous identification cards must be made. Our deadline is, of course, the Fall Conference opening on October 2.

The old barn museum is by no means empty: items in need of restoration and duplicate equipment have not been moved. And for the time being, the operational portion of W2AN will remain in the barn museum.

A.W.A. HISTORICAL MUSEUM

ACADEMY MUSEUM
East Bloomfield, N.Y.

Formal opening:
SUNDAY AFTERNOON, MAY 4, 1975

SCHEDULE
Museum Hours

May through October

SUNDAY 2 to 5 P.M.
WEDNESDAY 7 to 9 P.M.

Open other times to school, radio clubs and engineering groups by advance appointment.

-- No admission charge --

For further information, telephone
315-657-7489
716-244-9519
716-663-0856

OLD TIME "ADS" PAY OFF

"Woody" (W9GJS) writes that an "ad" in the OTB resulted in over 87 letters !! This would indicate great interest among members for early equipment. Incidently, AWA membership is approaching 1300.....

ASSOCIATION NEWS

CALENDAR OF EVENTS

SEPT. 13 A.R.R.L. NATIONAL CONVENTION
Reston, Virginia

OCTOBER 2-3-4 NATIONAL A.W.A. HISTORICAL CONFERENCE
Sheraton Motel
Canandaigua, N.Y.

OCT. 18 NEW ENGLAND REGIONAL MEET
New England Wireless Museum
East Greenwich, R.I.

NOV. 9 ANNUAL A.W.A. BUSINESS MEETING and DINNER
Holloway House
East Bloomfield, N.Y.

TOO MUCH -- NOT ENOUGH !

Being Editor of a small publication is fun -- at least most of the time.. A fair number of AWA members know me by name. These are the fellows I lean on for OTB copy....and guidance.

Unlike some organizations, AWA members have wide technical interests -- from juvenile radio books to detailed technical information. The trick is to have a little of something for everyone with the right proportion to membership interest. The latter is determined chiefly by letters received which sometimes are as many as 15 a day !

The largest percentage are interested in historical equipment. Many have amateur museums. They want to know how to identify and restore pieces in their collections. Then there are those who want articles on past and present historical development, people and events.

Occasionally the whole business gets a little out of hand -- but fortunately through the efforts of our good layout Editor who makes final decisions of "what goes where" -- another OTB goes to press.....

Keep the material coming in...be patient if I don't always reply to your letter immediately....and bear with me if your article, picture or note of interest doesn't appear in the next OTB.

--- B.K.

WXXI

TV 21 FM 91.5

PUBLIC BROADCASTING CENTER

A.W.A. exhibit at formal opening of Station WXXI drew much attention -- particularly with nationally known newscaster/moderator Martin Agronsky. Martin showed great interest in the several mechanical scanning TV sets on display which he freely admitted were a little before his time!

FOR THE MUSEUM LIBRARY

LIBRARY RESEARCH

The Association's Library has received another valuable addition from Bob Ryan of Anaheim, Calif. This time he sent a rare collection of books and papers covering the life of Thomas Edison which will further the value of the library for research.

A project for the winter months (after Museum construction) will be to catalog and cross-index the books for reference. We have reasons to believe AWA has material for student, writers and collectors which cannot be found in any other library.

ROCHESTER TO CANANDAIGUA MAP

Members who plan to fly to the National Conference (Canandaigua, Oct. 3) will undoubtedly go to Rochester and rent a car. If you need a map showing the road from the Rochester Airport to Canandaigua ---write Bruce Kelley, Holcomb, N.Y. 14469

(It may be wise to clear rental reference in advance at your local airport with Hertz or Avis.)

A.W.A.
Big Event of the Year
NATIONAL HISTORICAL RADIO CONFERENCE, OCT. 4
Canandaigua, N.Y.

Communications news

NEWS TODAY --- HISTORY TOMORROW

UNITED STATES ARMY

SIGNAL CORPS MUSEUM

MYER HALL

Avenue of Memories

Fort Monmouth, New Jersey 07703

A recent visit to this well established museum was a pleasant surprise. The Staff was extremely courteous and very helpful in showing us the following exhibits. In addition to the items listed, there is a collection of rare vacuum tubes including a 1907 de Forest Audion....

PRESIDENT KENNEDY'S WHITE HOUSE TELEPHONE
SCORE SATELLITE
VANGUARD I AND VANGUARD II SATELLITES
SOLAR CELLS
TACTICAL RADIO MINIATURIZATION
THE FIRST TELEGRAPH BATTALION – 1917-1919
TENTH FIELD SIGNAL BATTALION – 1917
WORLD WAR II JAPANESE EQUIPMENT
WORLD WAR II GERMAN AND ITALIAN EQUIPMENT
SIGNAL CORPS WORLD WAR II EQUIPMENT
NORTH KOREAN EQUIPMENT
VIETNAM EQUIPMENT
CAMERAS
EDWIN H. ARMSTRONG EQUIPMENT
RADIO TUBES AND TRANSISTORS
DESK TELEPHONES
EARLY FIELD TELEPHONES
WORLD WAR I ENGLISH AND FRENCH EQUIPMENT
WORLD WAR I GERMAN AND ITALIAN EQUIPMENT
SIGNAL CORPS WORLD WAR I EQUIPMENT
CRYPTOGRAPHY
EARLY AIR-TO-GROUND EQUIPMENT 1914–1918
BIRTH OF AVIATION IN THE SIGNAL CORPS
BATTERIES
METEOROLOGICAL EQUIPMENT
EARLY LONG LINE TELEGRAPH EQUIPMENT
THE SPANISH-AMERICAN WAR 1898
GENERAL GREELY COLLECTION
SIGNAL SCHOOL INSIGNIA
SIGNAL CORPS INSIGNIA
SIGNAL CORPS UNIT INSIGNIA AND HISTORIES
ALASKA COMMUNICATIONS SYSTEM
SIGNAL CORPS PIGEONS
SIGNAL CORPS ANTARCTIC EQUIPMENT
GENERAL MYER HISTORICAL COLLECTION 1856–1880
SIGNAL CORPS UNIFORMS 1860 – PRESENT
CIVIL WAR EQUIPMENT
GEORGE P. A. HEALY PAINTINGS
WOMEN IN THE SIGNAL CORPS
MEMENTOS FROM THE SIGNAL SERVICE OF FOREIGN ARMIES

Museum Hours: 8 A.M. -- 4 P.M.
Daily (including Holidays)

GIFT TO SMITHSONIAN

Word has been received that 25,000 rare books and manuscripts from the BURNDY LIBRARY of HISTORY and SCIENCE & TECHNOLOGY at Norwalk, Conn. has been given to the Smithsonian Institution..

THOMAS EDISON MORSE CODE RECORD IS FOUND

---- are the headlines of the "Brass Pounders Gossip", a paper published by the Toledo Morse Telegraph Club. The text tells how after much search, an old phonograph record made in 1920 was found containing Morse code send by pioneer telegrapher Thomas Edison. Plans are being made to record the message on tape with copies [cassette] being available to M.T.C. members.

VLF STATION WGU-20

mentioned in the last OTB brought information from Bruce Boyd (W3QA). He tells us it was made by Westinghouse and has an AM output of over 50 KW from four (4) 14 KW. solid-state modules ! In fact, the entire transmitter is solid state, is remotely controlled and designed for unattended operation.

Instrument readings are digitized and transmitted to the control point by teletype at frequent intervals. The station is underground and is hardened against nuclear blasts and has auxilliary prime power.

The antenna is a beautiful 700 foot vertical with a spare "pop-up" antenna underground in case the regular antenna is damaged. The effectiveness of the transmitter is so great one can easily receive the voice signals on an old longwave crystal set 500 to 600 miles away with a good antenna. Reminds one of picking up Time Signals from old NAA on 2500 meters 60 years ago.....

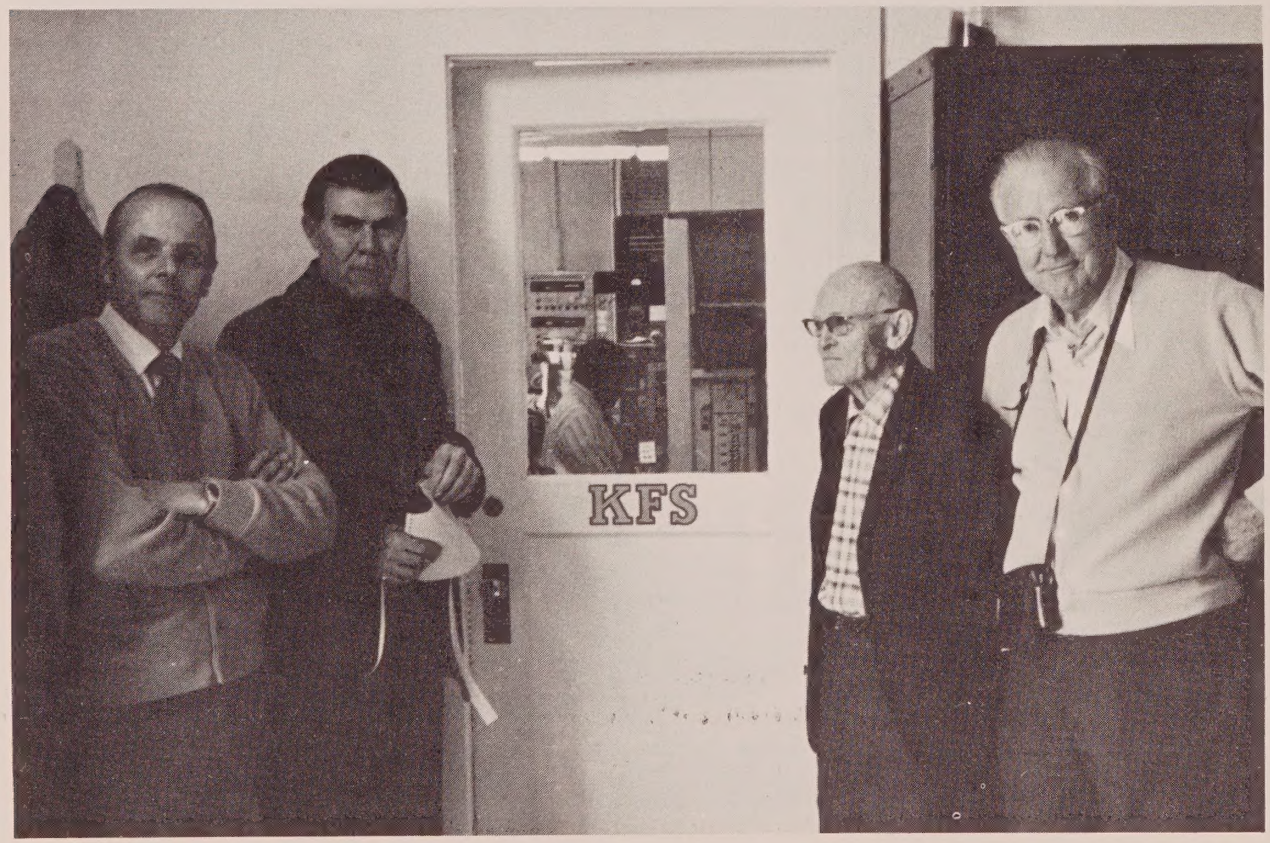
---- RALPH HEINTZ TAPE AVAILABLE

Members who attended the California AWA Meet at Foothills College may want a copy of the talk given by Ralph Heintz. Another rare historical documentary, it is avaiable in cassette from for $3.00 from: Thorn Mayes, 21120 Sullivan Way, Saratoga, Calif. 95070

A.W.A./S.O.W.P. MEMBERS VISIT MARINE COASTAL STATIONS

As one spins the dial between the ham bands there can be heard several high power commercial installations handling ship traffic and in the winter months (less QRN) it is fun listening to the 600 meter ship and shore stations. Members attending the forthcoming A.W.A. Conference (S.O.W.P. Meeting) will have an opportunity to see slides and hear about the operation of two such stations: WSC on the East Coast and KFS on the Pacific and listen to a tape made in Europe by W1DM.

l. to r. Bill Gould (K2NP), Dan Flomerfelt (W2BFV) and Earl Korf (K2IC) at entrance to RCA's West Creek, N.J. Station WSC (Foto by WB2BCY)



l. to r.- Station Manager Brundage, Bruce Kelley (W2ICE), Eben Cady (retired KFS Manager and Pres. S.O.W.P.) and Thorn Mayes (W6AX) at ITT's Marine Station KFS located about 30 miles south of San Francisco. (Foto W7JY)

THE MUSEUM

ACADEMY MUSEUM East Bloomfield, N.Y.

The Association's Electronic Communication Museum officially opened May 4 following a brief ceremony. These pictures show the work crews and their results.

George Batterson, W2GB, starts the ceremony by sending an "opening" message using a 1 KW. rotary spark transmitter.

Electricians Bruce Roloson and Ted Kerrick hastily mount fluorescent lights while Dick Ransley sands the floor prior to the grand opening.

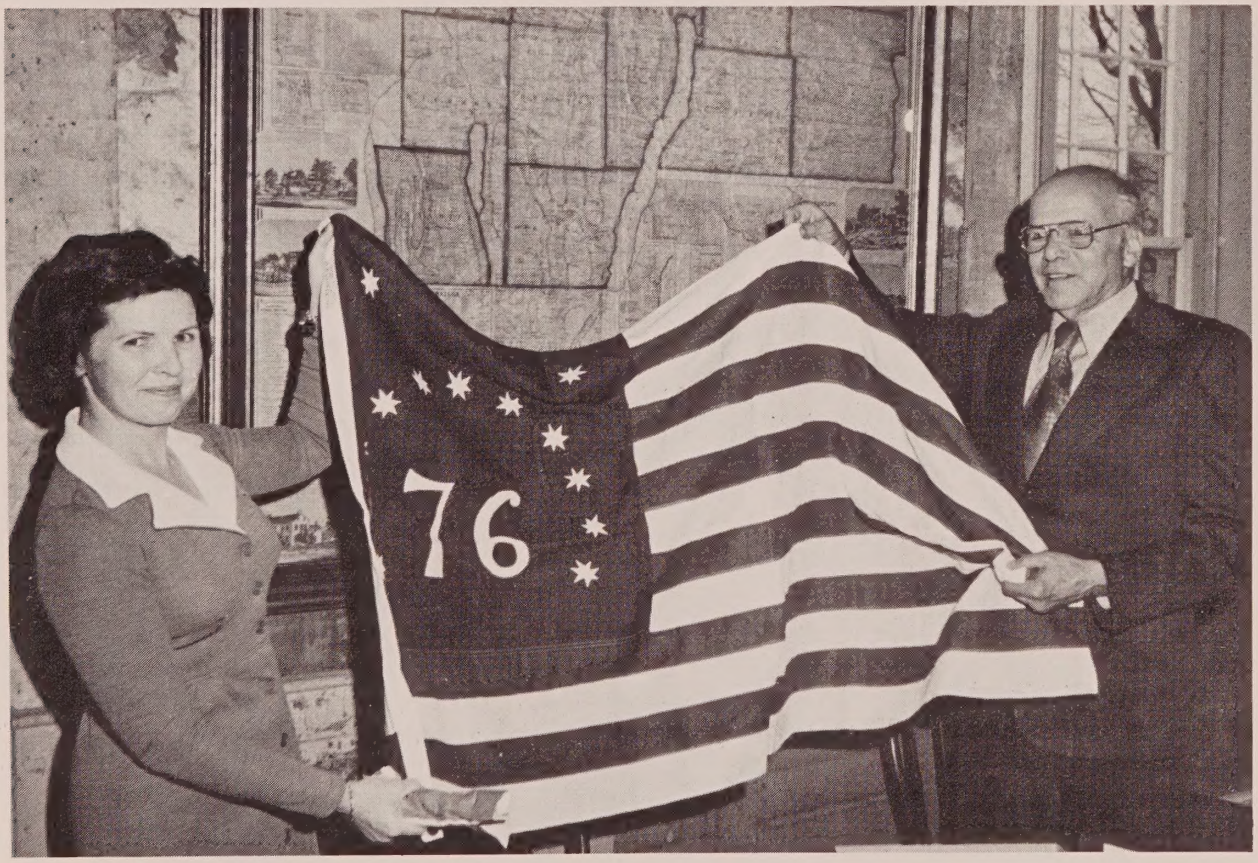
LARGE A.W.A. BUTTONS

with clasp (to be worn at all amateur and collector gatherings) will again be for sale at the 1975 Conference.

ORDER NOW

beautiful engraved plaque commemorating 1975 A.W.A. California Meet at Foothill College. $4.50 postpaid. Order from: Paul Giganti, W6GVY, 2429 San Carlos Avenue, San Carlos, Calif. 94070

Minges, Kelley, Cundall, Daykin and Brelsford perform a final floor cleaning job.
(All photographs by Al Crum, W2BWK)



Mary Burlingham, President of the Bloomfield Historical Society, presents Chuck Brelsford a bicentennial flag for the Museum as part of the opening ceremony.

The 1925 Store is open for business but without sales. It is all make believe.

Looking into the 1925 store from the main room. Not seen to the right of the "store" are the commercial, broadcast and telegraph equipment areas.

The raised platform in the background displays early A.C. receivers, historical television sets and phonographs. Much of this equipment is in operation.

Armstrong Hall (main room) features artifacts and working models of general interest Amateur equipment and storage area are located on the third floor.

A.W.A. MEMBER WORKED ON MODEL 100 and 103 LOUD SPEAKERS

It was during the mid-twenties that I found myself working among acres and acres of Radiola Receivers, Loudspeakers, Amplifiers, and other radio products in the General Electric plant at Schenectady. As a "Test Man", one of my first jobs was to energize the magnets for the Model 100 Speaker as well as to test some of its other parts. Soon to follow was the famous 100A and the 103.

As a "Teener", I shall never forget the rows and rows, and tier upon tier of cones, magnets audio filters, and cases, all awaiting the start of the endless belts and final assembly and test. From nearby building these parts were accumulated by small electric tractors, the forerunner of the forklift.

At that time GE and Westinghouse designed and produced the entire marketing needs of RCA, in the ratio of 60% GE and 40% Westinghouse. Though Western Electric did participate in this arrangement, I have always understood that they limited their activity to the Broadcast Transmitter Equipment field.

Being a neophyte, I was unaware and likely uninterested in who did what to whom in the business place. But, I can assure you that there were a great many of such speakers turned out there on a three shift basis and lasting several years. Perhaps some did find there way to Western Electric, and most certainly to Westinghouse but, of course the lion's share were shipped to Camden for distribution to other points.

Ralph Yeandle (W2IK)

INFORMAL SESSION AT BREESPORT A.W.A. MEET

The Annual Breesport (N.Y.) meets usually breaks up into three groups following the dinner: visitors to the museum (which houses a collection of very rare tubes), a group inside the house enjoying the best entertainment provided at any A.W.A. gathering and lastly, members having an outside informal session as seen above. On this occasion, the current price of equipment was discussed. (Photo by W2BWK)

Sterling Jensen will feature the article in this month's TUBE COLUMN.He is a well known West Coast tube historian and is currently writing a book on tube development. Sterling is a member of the newly formed A.W.A. Vacuum Tube Committee. A recent telephone conversation with Jerry Tyne brings the news that his book is at the publisher and will be available early next year. He tells us it will contain over 500 illustrations !

TELEFUNKEN METHOD OF IDENTIFYING VALVES [TUBES]

by Sterling Jensen, Granada Hills, Calif.

Collectors of foreign tubes will find the following code system employed by German Telefunken of value in identifying early vacuum tubes. This system was applicable to tubes manufactured by Telefunken in the mid-20's through the early 30's.

FIRST TWO LETTERS --- Type tube

RE = Receiving type
RG = Rectifier
RV = Output or lower power transmitting triode

ADDITIONAL LETTER --- Supplementary identification

N = Receiving -- AC filament
S = Receiving -- Shielded
N = Rectifier -- Low voltage battery charging
L = Rectifier -- High voltage battery eliminator

FIRST NUMBER (S) --- Filament current in hundreths of amperes

LAST NUMBER --- Filament voltage

ENDING --- Additional information

(none) = European standard 4 prong socket or German 5 or 7 prong socket.

d = European standard 4 prong socket with side terminal for second grid

Serie = Special tube for operation in series connection to DC supply

Neutro = Special tube with low grid-plate capacity for high frequency operation

EXAMPLES OF USE:

A tube marked "RES 164 d" = "Shielded receiving tube with side connection to second grid, Filament: 4 volts @ 0.16 amps.

A tube marked "RGN 1404" = "Rectifier for high voltage eliminator. Filament: 4 volts @ 1.4 amperes.

VINTAGE RADIO AGE GUIDE

Use these clues. Don't believe the seller; his guess is no better than yours. Most clues tell you the earliest a radio or TV. could have been made; it may have been much later. Consult your Vintage Radio.

PATENT NUMBERS: Most early sets contained patent notices. The set must have been manufactured after the most recent patent.

January	Number	January	Number
1900	660,000	1926	1,580,000
1902	720,000	1928	1,660,000
1904	770,000	1930	1,760,000
1906	830,000	1932	1,850,000
1908	890,000	1934	1,940,000
1910	950,000	1936	2,010,000
1912	1,020,000	1938	2,100,000
1914	1,080,000	1940	2,180,000
1916	1,150,000	1942	2,270,000
1918	1,240,000	1944	2,340,000
1920	1,320,000	1946	2,390,000
1922	1,410,000	1948	2,430,000
1924	1,500,000	1950	2,500,000

VINTAGE RADIO
Box 2045
Palos Verdes Peninsula,
California 90274

WARNING -- UV-196

I purchased a Dubilier Super Type 800 "B" power pack several years ago at Leotones in New York's Radio Row. Seeking information about this very early "B" eliminator (the rectifier tube was missing) I found a January, 1925 ad stating it used a UV-196 tube.

Fortunately, I had such a tube and placed it in the socket with negative results -- it would not even light !

Being curious, I traced the circuit and found that Dubilier had revised the circuit for later models to use a Raytheon "B" tube ! (See Tyne's article on UV-196 tubes in Sept., 1974 OTB).

----- Frank Pagano

OLD TYME HAM ADS

OLD TYME ADS are FREE to members who are interested in collecting and restoring historical equipment as an amateur. They are not to be abused.

RULES FOR ADS:

1. Material must be over 25 years old and related to radio or electricity.
2. Ad MUST be written on separate sheet of paper --- not part of letter. For acknowledgement--send S.A.S.E.
3. Give full address, Zip number and call letters (if any).
4. AWA will not print repetitious ads or ones indicating regular sale for profit.
5. The Association is NOT responsible for any transaction.
6. AWA retains the right to reduce size of ad if OVER 8 lines including address.
7. Only ONE ad per member per issue.
8. All ads must be received 6 weeks prior to mailing date. (See deadline dates on this page.)
9. Mail to: Antique Wireless Assn. Main St, Holcomb, N.Y. 14469

WOULD LIKE to borrow (or buy) Radio-Craft Mar. '38, Radio News Oct./Dec.'24, Jan./Nov. '25, Sept. '29, Fortune Maga. Feb. 1948, Scientific Amer. Apr. 1954, HiFi mag. Dec. 1961, Electronic Eng. Apr.'45,'Apr.'43,Dec.'49 and Jan. '50. Tom Thomson, Box 634, Iron Mountain, Michigan 49801

SWAP: Electro-Voice double button carbon mike. Plating not best but otherwise OK. Want Turner Mod. #99. Condition not important if electrically OK. George Kasdorf, W9FSA, 704 S. 6th. Goshen. Ind. 46526

NEED technical info on Kennedy 311 portable receiver, guidance in rewinding filament pot. Need Radiola 18 dial lamp cover and good WD-11 or UV-199 tubes and pre-1927 RADIO NEWS. Jim Hager, 2212-12 Palestra,Creve Coeur,Mo. 63141

WANT: 1930-1936 AK receivers, McMurdo-silver Masterpiece VI, Radiola 24, Radio Retailing mag. 1925-1937, AK Service manual,knobs & tweeters for Scott Philharmonic.Buy or swap. John Wolkonowicz 11 Hartford Rd.,Worcester, Mass. 01606

WANTED:Back issues of "Amateur Radio Defense" magazine pub. in early 1940's. Nagle,K4KJ, 12330 Lawyers Rd.,Herndon, Virginia 22070

GIVE AWAY--cabinet only for RCA Radiola 44, Mod. AR-594. Bad condition. Recipient pay shipping. If more than one wants it, will place names in hat and draw lucky name. John Elwood,Box 1243 Lancaster, Calif. 93534

FOR SALE: Anderson "S" bridge connected chemical "B" elim.(1924). Needs reworking $10. RCA shipboard rx 300 to 23000 khz. AC pwr. supply. $100.00 Al Fitch, W3AW, 9406 Evans St., Philadelphia, Penna. 19115

FOR SALE: Tubes (new) UX-30 or VT-24/864 UX based $2.50 or five for $10.00 Prefer swap for panels,coils,tuners,sets. Tell me what you have incl. books.SASE WA4NED, Geo. Haymans, Box 468, Gainesville, Florida 30501

WANTED: SW-4 National in any condition for duo-coupler, R.F. choke and bakelite chassis. C. Byrnes, Box 25, Pismo Beach, Calif. 93449

WANTED: Pwr. trans. for Norden-Hauck, Admiralty Super-10 (2-7.5 and 1-2.5 v. A.C.) Also schematic for improved version with AVC, Crosley Trirdyne AFTs and dial pointer. Don Dean, 1711 Colleen Street, Sarasota, Fla. 33581

FOR SALE: Printed copies of A.K. Warranty and Receiving Set tags for any model breadboard. Send me your model nr., set part nr. and $1.00 per set. Arnie Schwartz, WB6PJC, 4728 Dunman Ave. Woodland Hills, Calif. 91364

SEND SASE for List 75-2 of antique radios for sale or trade. Need dials for Boston Scale amp. as shown in Vintage p.117 and Old Timers Bulletin Vol.8 No.4, page 16. Dave McKenzie, 1200 West Euclid, Indianola, Iowa 50125

TRADE: Magnavox Mod. J, TRF for Kennedy XV or AC Pilot or we can work deal on a good AK board. Tom Adelsperger,2372A Antietan Circle, NAS Lemoore,Cal. 93245

DEADLINE FOR OT ADS

Jan. 15 ------ March issue
Apr. 15 ------ June issue
July 15 ------ Sept. issue
Oct. 15 ------ Dec. issue

WANTED: info on WE loop as used on WE-4 series. Want to make replica. Need RA-DA AFT, GR vernier cond.,DeForest crystal det.,AK-40 & 44, Radiola balanced amp., & Radiola 20. F.O. Ritter, W4SKN, 930 First Place, Longwood, Fla. 32750

WANTED: Federal 4" tuning knob, Federal 53-W headset, Fed. #15 phone plug, Fed. 61 owner's manual,schematic that tacks to lid,Kennedy 521 or 525 amp,Kennedy 110 DC fila, voltmeter. Have Scott 800B to swap or sell $150. Walt Sanders, 15 Todd, Terre Haute, Ind. 47803

WANTED: Miracle crystal set. Also Electronics magazine pre-1951 issues. Morgan McMahon, Box 2045 Palos Verdes Pensla., Calif. 90274

FOR SALE: Two large collections totaling 63 sets of antique radios, tubes, keys, etc. Send S.A.S.E. for list. Paul Giganti, W6GVY, 2429 San Carlos Ave. San Carlos, Calif. 94070

FOR SALE: Freshman Masterpiece circa 1923 in working condition, tubes and schematic with 24" WE cone spkr. Spkr. in original shipping box, not mint. Fred Linn, W9NZF, 2929 No. Shepard, Milwaukee, Wisconsin 53211

WANTED: copy of ARRL handbook for 1940 and 41. Also WIRCO type X, UX tube sockets, Advise price and condition. E.V. Brant, 6465 Sterling Ave.,Detroit, Michigan 48202

WANTED: Old-time transmitter, tubes and parts. Have Acme reflexes and Freed-Eisemann for trade. A.C. Stoddard,1502 Briarwood, Lansing, Michigan 48917

WANTED: Anyone have a Marconi 106-D receiver for an old sea-goin' operator now on the beach ? J. Wm. Anderson,W6QV 10912 Sherman Grove Ave., Sunland, Calif. 91040

SELL: 01A's and 199's with open filaments at $1.50 each. Need Crosley Pup. J. Cadrecha, Hillcrest Apt. 33-E, Danbury, Conn. 06810

FOR SALE: Crosley Model V - $100.00, Mod. 50 - $100.00, Mod. 52- $75.00, Pup- $200.00, Radiola 5 - $125.00,cabinet for Kennedy 220 $25.00 David Varnum, W9QNC, 1115 W. 4 Ave., Belleville, Ill. 62221

FOR SALE: earphones--Best (100 ohm), Frost (1200 ohm), Murdock, Telephone Corp. Type 300 (70 ohm), Brandes Superior. Some with and without cords. W2ZK, Amory Waite, 46 Monmouth Blvd.,Oceanport, New Jersey 07757

SELL or TRADE: Over 2000 old tubes. Nearly any type except rare items. All tested and good. $2. each plus postage. Send SASE for list. Allen Hicks, 8862 Montrose Ave.,Westminister,Calif. 92683

WANTED: Authentic speaker for Hallicrafter SX-17 (500 ohm), E.H. Scott radios prior to 1931. Bob Fabris,3626 Morrie Dr., San Jose, Calif. 95127

FOR SALE: Colin Kennedy receiver type 110. Good condition. Make offer. Geof Azoy, Box 253, Rumson, N.J. 07760

SELL or TRADE: Scott All-Wave hi-fi 1936 receiver. Perfect. Best offer. S.A.S.E. Steve Raymer, 365 E.Curtice, St. Paul, Minn. 55107

HELP: Need diagrams for AK Mod. 24 and Hallicrafter S-41G and 38-D. K6ARE, R.W. Randall, 1263 Lakehurst Rd., Livermore, Calif. 94550

WANTED: Cabinet for Thermiodyne TF-6. Also material to restore cone on pin cone type speakers. John Wasiewicz, 229 Sarles Lane,Pleasantville,N.Y. 10570

WANTED: WD-11 tubes, any condition, any info or liter. on following sets: 1925 Elkay, Elkay 5-S Super-selector, Amplex "De-EXER", AK Mod. 30,Radiola III Ed Wyspianski,RFD 4, Lot 27, Norwich, Conn. 06360

WANTED: loan of instruction plate normally attached to front of Western Electric Mod. 4-B receiver. Will pay all shipping charges. Dan Gaidosz, 342 West River Road, Orange, Conn. 06477

SELL or TRADE: Radiola 18,Graybar 310, Erla Monodic S-5 chassis, AK Instruction book (AK-40-42-44) AL Catalogs (AK-40-42-44-48-49) good, Brandes earphones, misc. parts. Jack Bacon, Apt.307 7700 36th Ave. N., Minneapolis,Minn. 55427

HELP: RJ-5 photo or legible drawing needed to build replica. Also Muter grid leak. Alan Douglas, Box 225, Pocasset, Mass. 02559

TRADE: 1887 Telegraph History book by J.J. Fahie. Fair condition, good binding, for modern VOM. J. Green, 5540 Hickory St.,Omaha, Neb. 68106

WANT: manuals for Hallicrafter SR-75, Raythronic Mod. CB-54 A cathode-beamer analyzer, vintage radios 1910-1934 and tubes,crystal sets,horn spkr. UZ-1325. Send list & price. Raymond Nash, 64 Sweeney St.,Buffalo, N.Y. 14211

SELL: Clapp-Eastham Ferron Universal Det.-$100, E.I. Electrolytic det.-$100, Cunningham tubular Audio-tron $25, Ajax galena xtals- $1 each,Million Point xtal $2. each,Weston plugs-$2,VT-2 $7.50, Baldwin "A" phones $10, Brandes "Transatlantics" or Weston Electric single at $5. Dick Sepic, 1945 E. Orange Grove Blvd.Pasedena,Calif. 91104 (213-791-3222

FOR SALE: several old battery radios, early electric sets, tubes and asstd. parts--buy/sell/trade. SASE for list. Chet Wisner, W1VSR, 1014 Main Street, Dalton, Mass. 01226

(Cont. on next page)

WANTED: Any Bosworth electric radio. Kevin Bosomworth, 812 Janesview, Popillion, Nebraska 68046

FOR SALE: Large collection of amateur sets and parts, tubes and meters. Part of estate of Harold Cager, K4CR. Send SASE for list or tell wants. Write: Forrest Pilgrim, W4JD, 1740 Orchard Court, Kingsport, Tenn. 37660

WANT: Record albums to hold 78 rpm records. Any quantity. Ed Clute, 4 Orchard Ave.,Watkins Glen,N.Y.

WANTED: Emerson "Mickey Mouse" radio and other unusual AC sets. C.E. Clutter, 109 S. 1st E. Richmond, Utah 84333

TRADE: AK 10B board set with trimmed ends for Pooley cabinet--restored and playing for Federal or Grebe (other than Synchrophase) of equivelant value. Ross Smith, 1133 Strong,Elkhart, Ind. 46514

WANTED: Amrad detector-amp. unit #2634 (part of Rcvr. #3500); Radiola AR1300 ("front end of Radiola V); Radiola AA 1520 ("front end of Radiola VI), small sets of any kind--sale or trade. R. Robbins, 253 Standish Rd.,Merion Station, Penna. 19066

WANTED: 10 in. spkr. for Scott AW 12, #16537 dial strip for Scott AW 15 (Xerox copy ok),dial escutcheon and shutter for Philco 16B (1934), S meter for RCA AR-77. George Harris, 3212 36th St.,Lubbock, Texas 79413

WANTED: Kennedy 110, Will pay $229., Marconi 106 (pre-WWI) Will pay $572. Also need "Radio News" with covers: Jul,Aug,Oct,Dec,--1919, May,Jun,Jul, Sept,--1920, Feb,Mar,May,Nov -- 1921 Richard Brewster, 4-3, GO SHIRASAGI, AZUCHI, TAKAHAMA-CHO, OHI-GUN, FUKUI-KEN, JAPAN 919-22

SELL or trade; vintage radios. SASE for list and prices. Art Harrison, 1021 Falcon Dr., Columbia, Mo. 65201

WANTED: "Radio Institute of America" text books "Radio Telegraphy & Telephony" Vol. 3 and 6. Swap or sell early books and magazines. Warren Green,W7JY 7202 N. Mercer Way, Mercer Island, Washington 98040

WANTED: loose-coupler, 17 inch rect. glass envelope color TV set made in mid '50s by Westinghouse Electric Corp. E.W. Rossig, Box 237,New Market,Md. 21774

FOR SALE: WD-11 replacement new 864/VT24 tubes with custommade adapter, 1st class postage prepaid $7.85. Need Marvel crystal receiver described in Jan. 1975 OTB Radio Receptor Story. D.B.Whittemore,W2CUZ,36 Masterton Rd., Bronxville, N.Y. 10708

SELL: Scott 30 tube receiver as is and other items. SASE for details. Need 1929-30 RCA service manual & Rider 4, 5 and 6. E.T. Montgomery, 1092 Willowbranch Ave.,Jacksonville, Fla. 32205

SELL- old radio tubes and books -huge lists.Send 40¢ for book/publication lists and 30¢ for tube lists (to cover postage & cost).(60¢ for both). 10% discount to AWA members. 10% of sales to AWA Museum Fund. Hart W. York, Box 365, Fontana, Calif. 92335

WANTED: any info on Ware Radio Corp. neutrodyne Tyle "L" receiver. Larry Flegle, 1004 E. Powhattan Ave.,Tampa, Florida 33604

WANTED: Weston Type 301 meter 0-8 VDC, Body diamter 2-9/16 inches. Write: G.G. MaConomy, W6BUK, 36770-10 Florida Avenue, Hemet, Calif. 92343

WANTED: Scott Symphony,Shield Grid and World's Record Supers. Also Selectone parts, Will buy or have AK 10B and other nice sets to swap. Send SASE for of list of sets,tubes,magainzes and parts for sale. J.G. Halser, 2438 So. Howell Ave., Milwaukee, Wis. 53207

TRADE: have Vibroplex,battery set tubes or cash for DeForest Interpanel set parts such as sockets,rheostats,tap switch,coils,audion control panel,etc. Geo. Hausske,W90LE,1922 E. Indiana, Wheaton, Ill. 60187

WANTED: AK Mod. 545 spkr chassis plug, AK Mod. 545 knob,Radiola IIIA,Radiola 17 & 18 bulb covers, Radiola 28 plug-in fila, meter. Kurt Mayro,443 Argyle Rd.,Drexel Hill, Penna. 19026

WANTED: Cabinet for Aeriola Sr. & Pilot AC Super-Wasp. John Whiting, 110 Selma Blvd.,RD #2,Dover, New Jersey 07801

NEED: AK Mod. 44 pwr supply resistor, Radiola 25 parts, RCA VIII cabinet parts, RCA UZ-1320 or UZ 1325 speaker, dial for AK 37:Jim Berg, Box 72, Cloverdale Calif. 95425

WANT: AK breadboard & parts,have parts to trade. Terry Chew,M.D.,Dept. of Medicine,VA Hospital,16111 Plummer St., Sepulveda, Calif. 91343

WANT: Crosley 50 amp,Lab Standard Rcvr., Palmar amp,Leutz L,C-10,K,S & J & pre-1923 equip.,Grimes,Kennedy 311 parts., For sale:bat. sets,QSTs,books.Send SASE. Rick Ammon, Box 104, Mt. Carmel,Ill. 62863

WANT:Bottom panel for Radiola 100A spkr., knobs for Philco 87. Info on 1926 & 27 Hartman radios & AC sets made by Powertone. Greg Farmer,3839 Reservoir Blvd., Minneapolis,Minn. 55421

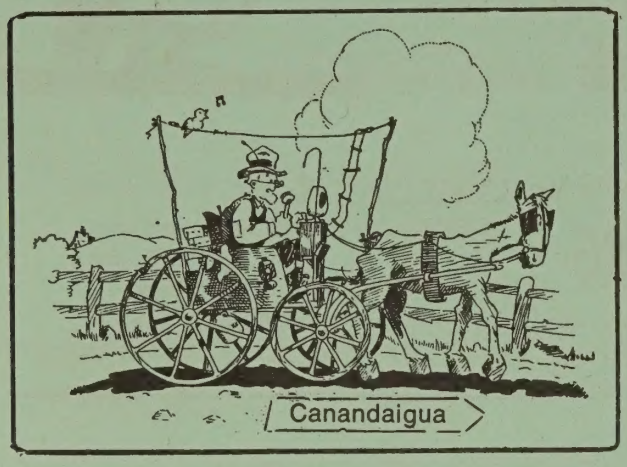
SELL/SWAP:battery sets,old tubes, new WE Peanut tubes,headphones,Murdock phone condensers,etc. Bill Laverty,RD #1, Box 62K, Egg Harbor, N.J. 08215

PROGRAM ANNUAL RADIO CONFERENCE

The Antique Wireless Association

"An amateur organization devoted to the history of wireless"

AFFILIATE



October 2-3-4

SHERATON INN

CANANDAIGUA, N.Y.

On Rt. 20 directly on beautiful Canandaigua Lake,
770 South Main Street, Canandaigua, N.Y. 14424
Phone: 1-315-394-7800

Programming For Everyone

General Information . . .

REGISTRATION with meals must be made through Treasurer Dexter Deeley, 50 Rockingham St., Rochester, N.Y. 14620 before Sept. 27 (Unlimited registration without meals at Conference for only $4.) Your dinner tickets, program with registration badge will be waiting for you at the Sheraton.

RESERVATIONS AT SHERATON INN: A.W.A. does not handle room reservations -- you must make your own directly with the Inn. Use enclose card. Send S.A.S.E. if you wish confirmation.

Note: There are several all season commercial motels in the area which do not require advance reservations. Rates start with singles at $10.

Transportation: Some members may wish to travel by plane to the nearby Rochester Airport (30 miles) where one can obtain Hertz rental cars. We suggest you clear rental at your local airport before arriving in Rochester. If you need a map from Rochester to Canandaigua -- write A.W.A. Headquarters.

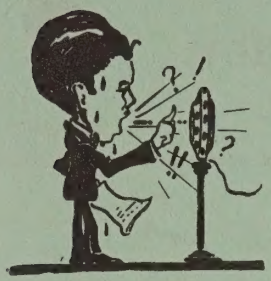
LADIES PROGRAM

For a change this year we are letting the visiting ladies choose their own activities from the list available at the A.W.A. Registration Desk on arrival at the Conference. Since all ladies will not want to be doing the same things, we recommend that they select the place or places they want to go and team up with others who have like interests. For instance, in Canandaigua there are the famous Sonnenberg Gardens. Nearby in Geneva, Naples and Rochester are other places of interest. At a further distance are the Glass Center in Corning and Letchworth Park near Perry. Form your own personal group to enjoy one or more activities. Helen Kelley, Doris Brelsford and others will be on hand to aid you.

MAKE MOTEL RESERVATIONS NOW! (Special rates to A.W.A. Members)

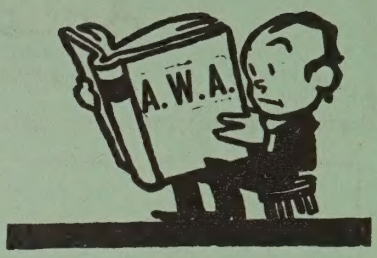
ANTIQUE WIRELESS ASSOCIATION

ANNUAL HISTORICAL RADIO CONFERENCE AND PIONEER BANQUET



Program

SOMETHING FOR EVERYONE.....



THURSDAY EVENING

4:00 to 7:00 P.M. A.W.A. Conference REGISTRATION at Sheraton

8:00 P.M. **MUSEUM OPENING** Ceremony commemorating Official Opening of new Communication Museum

Participants: Elliot Sivowitch, Smithsonian Institution
Harry McConaghy, American Radio Relay League
East Bloomfield, N.Y.

FRIDAY MORNING

MAIN ROOM

8:30 A.M. REGISTRATION for Conference

Register equipment for auction

9:30 to Noon **SPECIAL FEATURE**

SWAP AUCTION

Joe Pavek, WØOEP

Here's your chance to swap unwanted items and find what you need. For smooth operation, participants are asked to register sale items in advance. No junk please ! Members are asked to donate 5% of sale to Museum Maintenance Fund.

DIRECTORS ROOM

10:00 A.M. **O.O.T.C. MEETING**

President Andy Shafer, W8TE

11:00 A.M. **OLD TIME TRANSMITTER SESSION**

Ken Gardner, W2BGN

Bring old transmitters and receivers for display.

1:00 P.M. **OLD EQUIPMENT CONTEST**

Register equipment for display
(For details-- see last page)

FRIDAY AFTERNOON

1:30 P.M. **TELEGRAPH** by members of Morse Telegraph Club

DEMONSTRATION OF THE EDISON QUADRUPLEX by Stu Davis, W2ZH
(Multiple transmission over single wire)

TELEGRAPH & CABLE GEAR -- PHILLIPS AND OTHER CODES
Lou (W3WRE), Linda (WB6ZSE/2) and Stu (W2ZH)

2:30 P.M. **TUBE COLLECTOR'S SYMPOSIUM** Bro. Patrick Dowd (W2GK)
Science Instructor
Paramus Catholic High School

DEVELOPMENT & IDENTIFICATION
OF ALL METAL VACUUM TUBES
(Dual projection)

NATIONAL HISTORICAL RADIO CONFERENCE

3:30 P.M. **HISTORICAL DOCUMENTARY**

THE DEVELOPMENT OF THE ALEXANDERSON ALTERNATOR

Illustrated talk based on two years research by Thorn Mayes [W6AX, Saratoga, Calif.]. The Alexanderson alternator is the huge precision rf generator which changed radio communication history nearly 60 years ago.

6:30 P.M. **CONTINENTAL SMORGASBORD** Lake Dining Room

8:00 P.M. **TITANIC** Actual news-reel clippings [movie] of TITANIC, rescued passengers on the CARPATHIA and Marconi -- all taken in 1912.

Introduction by William Morris [Nautical Historian] who will show slides and tell about other great ships of the past.

SATURDAY MORNING

9:00 A.M. **RADIO COMMUNICATION AT SEA** Presented by members of SOCIETY OF WIRELESS PIONEERS

Visit to RCA's Marine Station WSC, West Creek, New Jersey [Bill Gould, K2NP]

Visit to ITT's Marine Station KFS, Half Moon Bay, California [Thorn Mayes, W6AX]

Tape playback of 600 meter ship and shore traffic recorded in Europe. [Art Goodnow, W1DM]

10:00 A.M. **COLLECTOR'S SYMPOSIUM** Larry Whitlock, WA1INN

"SHOW AND TELL" Audience participation

Show or tell how you made or replaced a difficult part. Tricks on refinishing or restoration. If possible, bring sample to show.

11:00 A.M. **HUGO GERNSBACK** Dr. Myron Shaw, Dept. of Communication, S.U.N.Y.

Illustrated talk covering the life of the world's first radio magazine publisher and parts manufacturer.

---

12 Noon **LUNCHEON**

[Main Dining Room overlooking Lake]

SATURDAY AFTERNOON

1:30 P.M. **COLLECTOR'S PANEL** Indiana Historical Radio Society

Ross Smith -- Moderator

[Award to winners]

2:30 P.M. ***Grebe*** Rare movie takin within the Grebe plant [Richmond Hill, N.Y.] showing the manufacturing of Grebe receivers 45 years ago. [Commentary by Ralph Williams]

SATURDAY EVENING

5:30 P.M. **COCKTAIL HOUR**

[Main center lobby overlooking lake.

7:00 P.M. [Main Meeting Room]

PIONEER BANQUET

Toastmaster: Ed Redington

Introduction of celebrities
Equipment Contest Awards
OT Transmitter Contest Award

plus the new

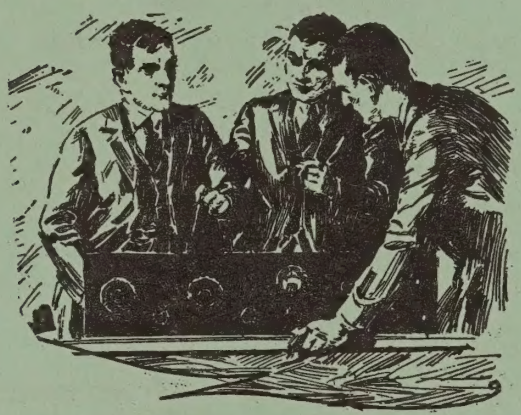
A.W.A. COLLECTOR'S AWARD

HOUCK AWARD PRESENTATIONS

At the end of a perfect day.....

OLD EQUIPMENT CONTEST

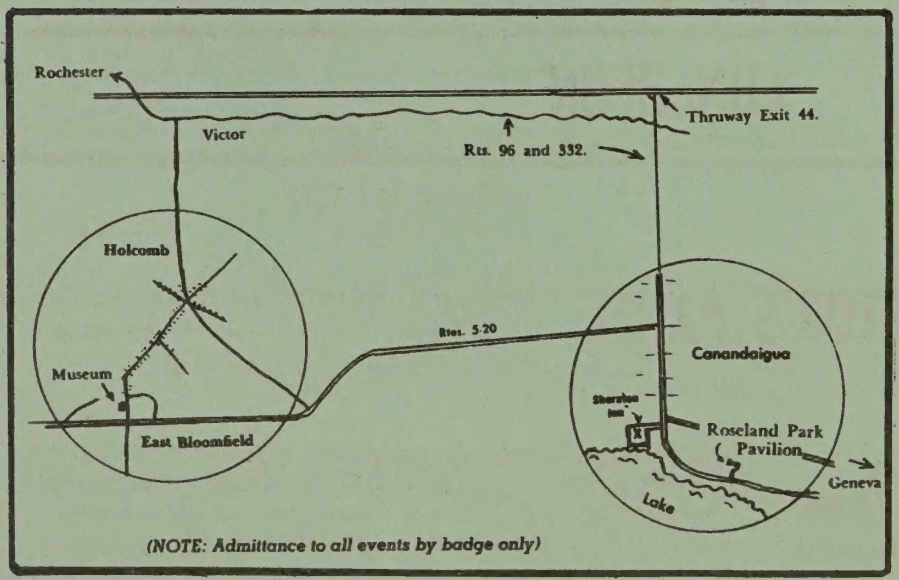
Antique Radio Club of America Committee: Mel Comer, John Drake and Ralph Williams



ENTRY CLASSES

1. Regenerative receivers
2. Crystal sets
3. Tuned RF receivers
4. Superheterodyne receivers
5. Tube transmitters
6. Spark transmitters
7. Loose couplers
8. Loud speakers
9. Audio amplifiers
10. Vacuum tubes

All equipment must be REGISTERED and in Director's Room before 3 P.M. Friday. Equipment will be on display Friday PM and all day Saturday. The room will be guarded when not locked. Prize ribbons will be on Winning sets. Equipment MUST be removed by 6 P.M. Saturday.



(NOTE: Admittance to all events by badge only)

OPEN HOUSE

A.W.A. ELECTRONIC COMMUNICATION MUSEUM
East Bloomfield, N.Y.

VISITING HOURS

Thursday: 7-9 P.M.
Friday: 9:30-11 P.M.
Sunday: 9 AM - Noon

Please restrict your visit since attendance will be over 300 with limited museum facilities. Be sure and sign log.

PARKING LOT AT FOOTHILL COLLEGE

always provides the collectors an opportunity to buy, sell and swap old gear. Seen are Kelley (W2ICE), Mayes (W6AX), Williams (WA3SNR) with Jim Cirner of Mountainside, Calif. who is offering a coil for sale. He tells the group it came from KPH. (Photo by W7JY)

The ANNUAL CALIFORNIA "Meet" was again held at Foothill College (south of San Francisco) with a good turnout. The flea market in the school's parking lot as noted above proved to be a top attraction competing with the fine radio display in the nearby Electronic Museum. Afternoon programming was highlighted with a talk by pioneer Ralph Heintz, W6RH. Radio historians associate Ralph with the firm Heintz and Kaufman, manufacturers of Gammatron tubes -- but few were aware he was a leading builder of marine equipment and had outfitted several Byrd Expeditions of the 1920's. A well organized and interesting program.

CONTEST WINNERS at FOOTHILL COLLEGE MEET

CLASS I Best Restoration of Factory Set

1st -- Kilbourne & Clark (Bill Baker)
2nd -- National SW-3 (Charles Byrnes)
3rd -- AK-40 (John Mc Cormack)

CLASS II Best Receiver circa WWI

1st -- United Wireless Type D (Dick Sepic)
2nd -- Japanese receiver (Woody Wilson)

CLASS III Unusual Items

1st -- Key collection (John Elwood)
2nd -- Audion panel (Joe Horvath)
3rd -- Miracle crystal set (Jim Berg)

CLASS IV Regenerative Receivers

1st -- Aeriola portable (Lane Upton)
2nd -- Home-brew set (Harry Stavert)
3rd -- Kennedy 220 (Henry Eckhard)

CLASS V Replica receivers

1st -- Silver-Marshall (Claude Reuyle)
2nd -- AK-3975 Style (Paul Thompson)

Sheraton Inn
Canandaigua, N.Y.
Arrangements are being made to have full occupancy at the SHERATON during the forthcoming Conference..

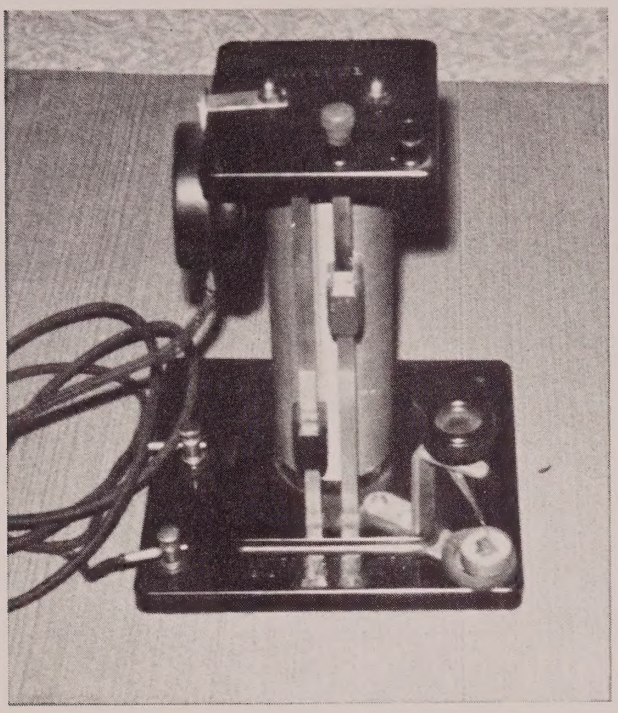
A.W.A. INSIGNIA

We were sure there would be an answer in this issue -- but the Committee ran into a snag. Was the selected design to be used for a badge, letterhead or envelope ?? Each could be different.. More later....

HOMEMADE SPARK GAP

I recently built a replica of an early amateur station consisting of a Model "T" spark coil and fix spark gap. The coil was no problem -- but where was I to find a gap ? The problem was easily solved when I found an old in-doors TV antenna -- a pair of "Rabbit Ears" ! The tips of the antenna were rounded brass and the rod just about the right size....they were cut off about 2 inches from the end, mounted -- and I had my spark gap..... (John Green)

RECEIVER OF THE MONTH



ELECTRO-IMPORTING "INTERSTATE" crystal set is described in No. 20 of E.I. Catalog (1918). This little receiver sold for $4.25 ($5.50 with single headphone) and is a collector's delight. It was found by Frank Nichols, W9AKH and you guessed it -- in a dusty basement of an old house!

Commercially made crystal sets and one tube receivers are now all the rage and frequently sell for more than their several tube contemporaries...

YOUR AD MISSING IN OT AD COLUMN ? ..if so, it was MAILED too late. It had to be in the mail at least 3 days BEFORE July 15 to meet the printer's deadline.

SELL or SWAP cabinets for Kennedy 521 & D7-A DeForest, coils for CR-18. Need 4 loading coils or specs for Grebe RORN. Joe Pavek, WØOEP, 55 South 12 Street, Minneapolis, Minn. 55403.

TRIP TO RIVERHEAD

Ken Richardson and I visited the old RCA receiving station at Riverhead recently and found the station is now down to a little more than four circuits including South America and Liberia. It would appear that it may be just a matter of time before satellite communication takes over completely.

To make the occasion interesting, Ken brought along his old 1912 NAA Time Receiver. With approval of operators in charge, we found a couple short pieces of wire, dusted off the old set and hooked it into one of the huge antenna systems.

Several BC stations were heard as well as the strong Defense Preparedness VLF Station WGU....

--- Jack Allison

PARAGON

Erla

Remler

CHELSEA

ADAMS-MORGAN CO.

CARTER

Kilbourne & Clark

CUTTING and WASHINGTON

A. H. GREBE

FALL MEET

SATURDAY, OCT. 18

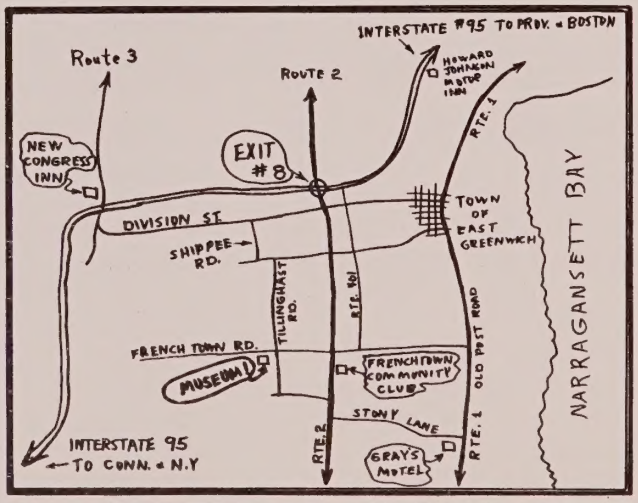
SWAP SESSION

Opportunity to leisurely swap old receivers, magazines and other early items....

THE NEW ENGLAND MUSEUM OF WIRELESS AND STEAM, INC.

Map To *The New England Wireless Museum*

TILLINGHAST ROAD, EAST GREENWICH, RHODE ISLAND 02818



LUNCHEON

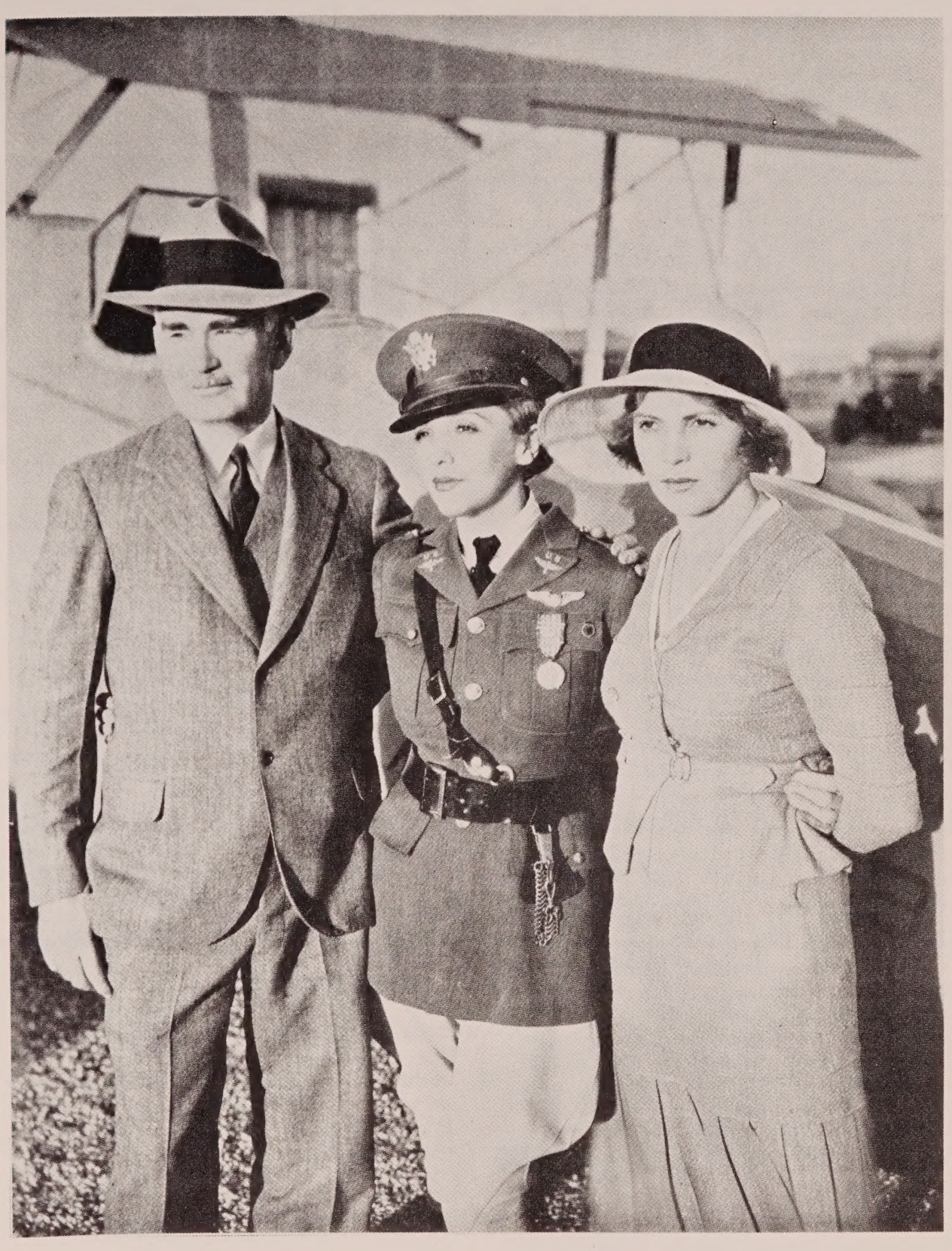
12 NOON

Short talks of historical interest...

Restoring old equipment: "Show and tell"

RECEIVER and OLD GEAR CONTEST

Classes to be announced



While thumbing through the April, 1931 issue of RADIO I found this remarkable picture of Lee DeForest, movie actress Bebe Daniels and Mrs. Lee DeForest. The caption stated Bebe Daniels was Dr. DeForest's cousin and an officer in the U.S. Army Air Corps (Reserve). Being curious about the picture, I wrote Mrs. DeForest (Maria) who confirmed the nearly 45 year old picture and agreed to allow us to print it in the A.W.A. OTB. Maria lives in California, is an A.W.A. member and is an active radio amateur.

the "Law of Supply and Demand"

CURRENT VALUE OF EARLY VACUUM TUBES

All tubes have good filaments unless noted. Emission unknown.

	1961	1975
1. VT-1 [early type]	$2.	$7.
2. VT-2 [early type]	2.	8.
3. DeForest spherical audion [single plate/good fila.]	12.	140.
4. DeForest audion [same as #3 except both fila. open]	--	66.
5. WWI French tube	--	32.
6. Audio-tron [baseless,2 fila.]	--	38.
7. Meyers Audion [RAC]	3.	22.
8. Electrad diode	--	18.
9. Welsh "Dollar" detector	5.	22.
10. WR-21 [Aeriotron]	--	22.
11. UV-196 rectifier	--	20.
12. WD-11 [brass/tit/clear]	--	16.
13. UV-199 [brass/tit]	--	6.
14. UX-199 [circa 1928]	--	5.
15. UV-201 [brass/tit/clear]	1.5	6.
16. UX-201A [circa 1928]	1.	4.
17. UV-202 [circa 1923]	--	12.
18. DeForest DV-3	--	6.
19. "P" tube [good fila.]	5.	80.
20. "P" tube [open fila.]	--	50.
21. DeForest "H" tube	3.	42.
22. Schickering Type S-300	--	6.
23. UX-210 [circa 1930]	--	6.
24. UX-852 [circa 1932]	--	15.
25. UX-860 [circa 1932]	--	10.

Current trend in value of early equipment appeared in the June OTB and as expected generated much interest.

Some felt the values were too high (the buyers ?) and others too low (the sellers). Differences in opinion also appeared to be regional and whether an item is nationally advertised.

When making reference to the list remember the receivers are WITHOUT tubes and have not been cleaned up -- and lastly, the value is the final selling price..

Trend in Vacuum Tubes (at left) were evaluated by the same group and reflect current values. Unlike equipment, tubes do not require restoration which helps eliminate a variable factor.

The values are for tubes unboxed with good filaments unless noted with unknown emission. New tubes in original cartons and labels are obviously worth much more. As an example: a new DeForest spherical Audion in original box, labels intact, etc., is currently selling for over $200. and not the $140 as noted. Already suggestions have been received to have another listing next year with greater participation and a greater listing.

SOFT-WARE HISTORIAN

Most amateur radio historians collect radio hardware -- receivers,tubes, keys and other items, however, George Starry (Latrobe, Pa.) has devoted many years acquiring rare latters, pictures, manuscripts and autographs. Oddities in his collection includes an original W-U telegram (1912) sent to the SS CARPATHIA concerning a rescued TITANIC passenger. One of his favorite subjects is pioneer station KDKA which has resultd in a huge album dating from Dr. Conrad's 8XK experimental days.

Change In Address?

Mail information to the Treasurer who handles current mailing list. (NOT the Secretary)

L.A. CUNDALL, W2QY
69 BOULEVARD PKWY
ROCHESTER, N.Y. 14612

TELEPHONE MUSEUM

Harry Cap reminds us of the fine Telephone Museum at 185 Franklin Street, Boston, Mass. It is located in the lobby of the New England Telephone and Telegraph Co. The displays are narrated automatically by tape which tells the history of the telephone as well as explains the various exhibits. There is no admission charge.

---- A TRICK.....

Jerry Beaudin pulled a clever trick on us while attending the recent IHRS/AWA Purdue Meet. He removed the glass envelopes from several UX-201A tube bases and inserted solid-state components per Fred Rice's article. He then re-inserted the glass envelopes --- and there was a receiver working with unlighted filaments !

NEW MEMBERS

--who are or have been associated with communication or electronics.

KEITH OLSON W7WS Radio Officer, U.S. Merchant Marine

MORTON SILVERMAN W9GJ, ex-W9GZB Chief Oper. Army Airways Com. Sytm.

D. ROUWHORST Delden, Holland Electronic engineering

WALDO LA FON K4OQQ Kentucky Power Co.

ROY TUCKER K6UZB, ex-W8LVF US Army Signal Corps, teacher.

BEN TONGUE West Orange, N.J. Blonder-Tongue Labs, Inc.

C. MALCOLM NICHOLS ex-8AYM, Curator of Fenton Historical Society Museum

JAMES ATKINSON WN2WVR, ex-8BNG, W8CLW Rochester Telephone Corp.

ARTICE DAVIS K5RKJ Kodak Research Lab

SAMUEL CARR W8UGF Ohio Edison Co.

ROBERT CLOSS W2RXG, ex-W8RXG, Electronic R & D at G.A.F., Inc., Military

GEORGE WEDEMEYER Ann Harbor, Mich. ex-8BF, 8CBO Ships: KUQL, KORC, WMIO Broadcast station WQAJ

HARLEY PERKINS WA7GLZ, ex-WA6ZKC, K3KYC, W5WOG, Radio Eng. at WEDO and WWSW

JACK ARCHIBALD K2AAC/PJ5MA Field Sales Engineer with Carborundum Co.

JOHN MC CABE W2BKR Adirondack Radio Supply Co.

DONALD BECKER K2RAB Educational Communication Center S.U.N.Y.

JOHN SLAUGHTER Mattoon, Ill. General Electric Radio Receiver Division

FRED LINK ex-3OV, 3BVA, W2ALU Pres. and owner Link Radio Corp.

JOHN ANDERSON Scotia, N.Y. Physicist General Electric Co. R&D

L.A. SIBLY, Cupertino, Calif., Stations KFSU and KCSB

JAMES HAGER ex-WAØWQH Electronic Eng. Data Communications, Western Elec.

DAVID VARNUM W9QNC U.S.A.F. Electronic

MICHAEL KOLISCHAK Winston-Salem, N.C. Western Electric Co.

E.T. MONTGOMERY ex-W4FAZ Radio/TV repair

MELVIN PRATER Salinas, Calif. Officer/ Supervisor Fire Alarm Maintenance

T.J. LAPRADE VE3KN, ex-VE2ET, VE2HN Canadian Pacific R.R. Telecom. Dept.

ROLLAND WAKEMAN W6DZW Telephone/Telegraph Communication Technician

LEONARD KEMP Maitland, Ontario, Canada Radio and TV service

MICHAEL CHATFIELD Cleveland, Ohio U.S. Navy Electronics

DONALD DEAN ex-8CKE, W8FQF Radio Eng. Signal Corps, Sales and Service

C. WILSON NORWOOD W2IQQ Adams-Morgan Co., Bell Labs,

FRED LINN W9NZF, ex-W2LTS, WØNZF BC Stat. WILL, Howard Radio, RME,

J.C.R. PUNCHARD VE3UD, ex-3CJ, VE2KK Northern Electric Co. Ltd.

ROBERT MAC FARLAND Renesselear, N.Y. Chief Engineer WFOI

GROVER RENICK, Kansas City, Mo. TWA, U.S. Merchant Marine Radio

NORMAN WEBSTER K6ZAE Sound Technician

ANTHONY KRAY Putney, Vermont Radio ZN6 U.S.A.A.F.

EDGAR BURGE Calgary, Alberta, Canada Pres. Canadian Vintage Wireless Association, Alberta Chapter

ALAN BREHAUT, Timaru, New Zealand Radio dealer and service

KARL KOPETZKY K9AQJ ex-1SW, W2GOW, W9QEA, WØBVS, W6LEW, Lear Avia Inc., Managing Editor RADIO NEWS, Editor Electronic Pack. Newsletter, etc. Engineer, author, consultant, etc.

THOMAS CALANTONIO Rockville, Md. Electronic Technician for Montgomery County Schools

M.P. ROBERTS Otterbein, Ind. Stations WBAA and WAZY trans. engineer

DAVID POWELL WA4BRI Eng. Supervisor for WLEX-TV

RAYMOND NICHOLS W2RN, 8JH BC station WGR, A.T. & T. Co.

WALLACE CHANDLER, Lansing, Mich. BC stat. WKAR

HARRY BRAUN K2IV Page Communications

ARTHUR SANDERS, Deansboro, N.Y. Musical Museum Director, service & restore

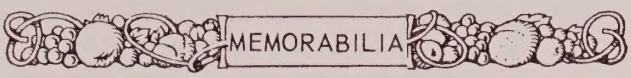
R.C. SCHAMBERGER Buffalo, N.Y. H.H. Scott Company

FRANCIS FINGADO, Denver, Colorado Instructor Denver Instit. of Tech.

OTB MAILING

Your June Bulletin was mailed 3rd Class in an effort to reduce cost. Unfortunately, it was mailed on the 1st of the month and some may have gotten temporarily held up in your local post office with all the other first of the month mail. This issue is being sent (hopefully) a little earlier and should arrive on time.

Just what you've always wanted:



PUBLICATION DATE
EARLY U. S. RADIO MAGAZINES

by FLOYD LYONS

This remarkable documentary of publication dates represents one year of work and much correspondence with Al Marcy, Wayne Nelson, Erv Rasmussen, Paul Thompson and Thorn Mayes who assisted the Author. Fine job Floyd !

Name of Magazine	Remarks	* Date of 1st Issue	Last Date
BUBIERS POP. ELECTRICIAN	Change to "Elect. & Mech."	Nov. 1890	June 1906
ELECTRICIAN & MECHANIC	See Note (1)	July 1906	Dec. 1913
MODERN ELECTRICS	Merged with "Elect. & Mech."	Apr. 1908	Dec. 1913
MOD. ELECT. & MECH.	New Name. See above & (2)	Jan. 1914	June 1914
POPULAR ELECTRICITY	Changed Name, see below	May 1908	Aug. 1912
POPULAR ELECTRICITY MAG.	Combined w/World's Advance	Sept. 1912	Aug. 1913
POP. ELECT. & WORLD'S ADV.	See Note (2)	Sept. 1913	June 1914
POP. ELECT. & MOD. MECH.	See Note (2)	July 1914	Dec. 1914
MODERN MECHANICS	See Note (2)	Jan. 1915	Mar. 1915
POP. SCIENCE MO. & WORLD'S ADVANCE		Apr. 1915	Sept. 1915
MARCONIGRAPH (U. S.)	Changed to "Wireless Age"	Oct. 1912	Sept. 1913
WIRELESS AGE	Absorbed by "Popular Radio" Sept. 1925	Oct. 1913	Aug. 1925
POPULAR RADIO	Name changed as shown below	May 1922	Mar. 1928
POPULAR RADIO & TELEVISION	(Two months only)	Apr. 1928	May 1928
ELECTRICAL EXPERIMENTER	Changed to "Science & Invention"	May 1913	July 1920

SCIENCE & INVENTION	See Above	Aug. 1920	Aug. 1931
PRACTICAL ELECTRICS	Changed to "The Experimenter" Nov. 1924	Nov. 1921	Oct. 1924
THE EXPERIMENTER	Absorbed by "Science & Invention" Mar. 1926	Nov. 1924	Feb. 1926
QST (ARRL)	See Note (3)	Dec. 1915	Still in pub.
EVERYDAY MECHANICS	Pocket size. Changed Name	Dec. 1915	Feb. 1917
EVERYDAY ENGINEERING	Pocket size Mar-Sept 1917 Full size Oct. 1917 **	Mar. 1917	Nov. 1920
PACIFIC RADIO NEWS	See (4). Changed to "Radio"	Jan. 1917	Oct. 1921
RADIO	Changed to "Audio Engineering" May 1947 (Apr. '47 skipped)	Nov. 1921	Feb/Mar 1947
RADIO AMATEUR NEWS	Changed to Radio News" July 1920	July 1919	June 1920
RADIO NEWS	See Note (5)	July 1920	July 1948
RADIO AGE (CHICAGO)	Do not confuse with "Radio Age" - New York	May 1922	Jan. 1928
RADIO BROADCAST	Merged with "Radio Digest" May 1930	May 1922	Apr. 1930
RADIO DIGEST	Not to be confused with the tabloid style "Radio Digest"	Apr. 1922	Oct. 1933

* Cutoff Date, 1925

** Double Issue, Nov/Dec 1919

Supplemental Notes:

(1) "Electrician & Mechanic" during the years of 1907-1913 absorbed "Amateur Work", "Building Craft", "American Inventor", "Scientific Digest", and "Collins Wireless Bulletin".

(2) "Popular Electricity Magazine" combined with "World's Advance" Sept. 1913, and then was called "Popular Electricity & The World's Advance". Then combined with "Mod. Elect. & Mech.", new title

(Cont. on next page)

(Continued from previous page.)

being, "Popular Elect. & Mod. Mech." For three months in 1915 (Jan. through March) was called "Modern Mechanics". On April 1915, "Modern Mechanics" united with "Popular Science Monthly" to form "Popular Science Monthly & World Advance". Later it was called "Popular Science Monthly".

(3) QST started with Dec. 1915 issue and continued through Sept. 1917. Discontinued, for the duration of WWI, after the Sept. 1917 issue (Vol. 2 #10) and resumed publication with the June 1919 issue (Vol. 2 #11). May 1917 (Vol. 2 #6) was known as the WAR NUMBER, and Nov. 1919 (Vol. 3 #4) was called the LIBERTY NUMBER.

(4) "Pacific Radio News" discontinued for the duration, from June 1917 through Dec. 1919. Publication resumed Jan. 1920 and continued through Oct. 1921.

(5) History of "Radio News": "Radio News" was first called "Radio Amateur News" July 1919-June 1920. Then took on its more familiar title of "Radio News", July 1920 -Nov. 1932. Then title variations took place. Dec. 1932 issue found it titled - "Radio News - Radio Call Book Mag. & Tech. Review" - through Sept. 1933. Oct. 1933 titled, "Radio News and The Short Wave" - through Dec. 1934. Jan. 1935 - slight change to "Radio News & Short Wave Radio". June 1938 - back to "Radio News". Aug. 1938, the cover reads - "Radio News combined with All-Wave Radio". (Other name variations also used.) In Aug. 1948 became "Radio & Television News". April 1957 this was abbreviated to "Radio & TV News" (last issued under this name was April 1959). May 1959, the name became "Electronics World".

(Note; In all the 39-plus years of "Radio News" publication, there was only one combined issue - Apr/ May 1922.)

VACUUM TUBE

COMMITTEE BEING FORMED

It may be difficult for many members of AWA to realize that the vacuum tube, the essential element in radio communication as we have known it, is dead... Of course EIMAC will still be making 4 CX-250's and other larger tubes for some time..and a few companies such as Western Electric (noted elsewhere in OTB) will continue to make replacement tubes for special use.

The production of tubes for radio and television however, has been reduced to replacements only, which is a small number compared to that of three or four years ago. Many tubes in the receiving catalogue will never be produced again. All this is by the way of saying that it is time to consider ALL vacuum tubes as real or potential collectors items--and this means tubes of the thirties and thereafter as well as those of earlier vintage.

Accordingly, AWA has established a Vacuum Tube Collectors Committee comprising several interested collectors known to have an interest in the history and preservation of tubes. Lauren Peckham (Breesport, N.Y.) has volunteered to act as temporary Chairman with myself (Bob Morris, Sparta, N.J.) and Bruce Kelley (Holcomb, N.Y.) as Assistants to the Chairman. In addition, we have asked Jerry Tyne (Berkeley Heights, N.J.) and Howard Schrader (Princeton Junction, N.J.) to act as advisors.

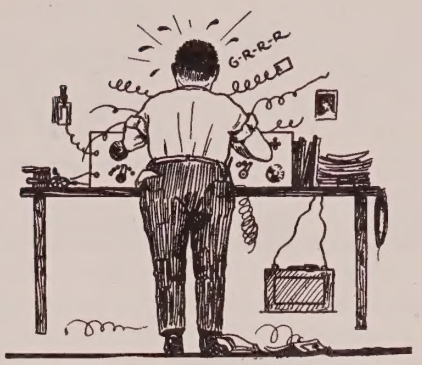
The purpose of the Committee will be to stimulate and encourage the collection and preservation of tubes of all classes and to foster research into the history of the development, manufacture and use of vacuum tubes.

One of the functions of the Committee will be to outline various classes and groupings of tubes which will make their collecting have more purpose and significance. Another major undertaking being considered is the preparation of a listing of tubes making distinction between variations within the same type number examples being metal vs. bakelite base, with tip vs. tipless, phosphorus vs. magnesium getter, etc. This should be of much interest since significant collections of tubes can be established without large monetary outlay.

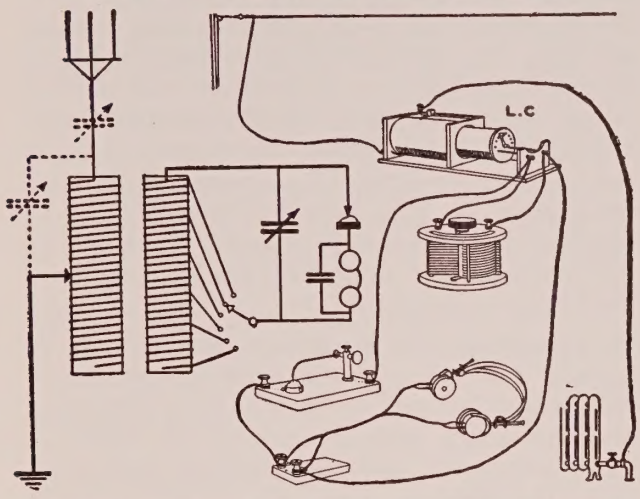
----- Robert Morris

RESTORING OLD EQUIPMENT

How did you SOLVE a problem when restoring an old receiver ? Drop us a note telling how you did it.



CIRCUIT FOR EARLY CRYSTAL SET RECEIVER USING LOOSE-COUPLER



REMOVING POTMETAL FROM ALUMINUM PLATES

A method I have tried successfully is to place the parts in a solution of sulphuric acid and oxalic & sodium bisulphate [in plastic or pyrex container]. You will have to experiment with the mixture and time in the solution. [Obviously much care should be taken with these solutions.]

---Frank Pagano

MARCONI BLUEPRINTS

When the old Marconi Station at New Brunswick, N.J. was sold by RCA the new owner acquired a large assortment of original blueprints which had been left by the American Marconi Company.

The collection consists of drawings covering building construction and apparatus at New Brunswick and other pre-WWI stations. Many of the prints were acquired by RCA and the Smithsonian, however, many dozens are still available at a nominal price. If interested in one for your collection or as a curio, send SASE for list:

E.A. Brodkin, 26 King Road
Somerset, New Jersey 08873

NEED BUS-BAR FOR WIRING ??

--- it can be purchased in two foot lengths at Sager Electric, Boston, Mass. in various sizes such as #10, #12, #14, etc... (E. Drake)

ENGRAVED METAL PLATE

[Gordon Eklund]

I am sure you have seen rare paintings with engraved satin-brass plates giving the name of the painting. You may want a similar plate for a rare piece of equipment or a valuable manuscript.

The Elgin Engraving Co. will make such an Art-Plate with two mounting holes for as low as $2. Send SASE for full details:

Elgin Engraving Co.
952 Edwards Avenue
Dundee, Ill. 60118

COLLECTORS

What are some of the more difficult knobs (or dials) to replace when restoring a receiver ? Many knobs are interchangeable or were frequently made by the same manufacturer specializing in molding....However, some are just not available -- how about the little ball dial on the Crosley "Pup" or the tuning knob on the SW-3 ?? A.W.A. recently received an assortment of knob -- all sizes, shapes and colors. The story how to obtain these replacements will be in the next OTB.

OLD TIME TRANSMITTERS

Are you using or restoring early amateur transmitters or receivers ? What problems have you encountered and how were they solved ? We're also interested in early amateur gear you may have found. As an example, Bill Orr (W6SAI) recently wrote that he picked up a mint PIERSON-DELANE PR-15 receiver...the last set made by the old Patterson Co. Wats nu wid you ?

Send info to Ken Gardner, W2BGN

On Review

WNP -- MAC MILLAN EXPEDITION

by Alan Douglas

Readers will find a brief but well written article on the 1925 MacMillan Expedition in the July issue of "73" magazine.

The article is nicely illustrated with pictures of equipment, John Reinartz, and of course, Don Mix. Nice job Alan.

COLLECTING TRANSISTORS

During a recent conversation with Bob Morris on the subject of collecting tubes, he called to our attention that some thought should also be given to collecting transistors since in time they too may become obsolete -- modern IC technology is making a great dent in use of individual transistors.....

The technician as well as historian will find TAB's latest book No. 810 titled TOWERS' INTERNATIONAL TRANSISTOR SELECTOR by T.D. Towers the answer to all transistor listings for some time.

This fascinating book lists the specs for over 10,000 transistors. It covers the entire field including all European and Japanese makes and diagrams for each.

It is a dandy reference book -- the paperback sells for $4.95 Write: TAB BOOKS, Blue Ridge Summit, Penna. 17214 or obtain from local dealer.

LLOYD'S OF LONDON

An illustrated history

This handsome volume has a communication connection for the famed London based consortium of insurance companies started in the late 1600s was to become one of the major backers of the use of wireless at sea, and several of the disasters which made use of wireless are told here including the TITANIC sinking. A fascinating book for $15.00 published by Hastings House of New York City,N.Y.

Hastings House is also the publisher of "American Broadcasting" by Lawrence Lichty reviewed on the last Bulletin. Members who ordered the book have found it of great interest. (See page 14 of June OTB) HASTING HOUSE Publishers, 10 East 40th St., New York, N.Y. 10016

RADIO ASTRONOMY FOR THE AMATEUR

by David Heiserman and published by TAB Books, Blue Ridge Summit, Penna.

252 pages with 88 illustrations
TAB Book No. 714 Paperback -- $5.95

Several years ago AWA reprinted an IRE article by pioneer radio astronomer Grote Reber. It was a fascinating documentary but left the reader hesitant about tackling the subject on his own. Radio astronomy was for the professional with their huge radio telescopes....

Not so -- according to a recent book published by TAB. One can become an amateur astronomer on a modest scale by purchasing a good FM receiver and building a steerable Yagi antenna.

FM receivers are broadband enough to pickup several signals from outer space including "noise" from the Sun, Jupiter and the Milky Way...the book is full of interesting information and construction articles...

A FLICK OF THE SWITCH

312 pages of classic, amateur and commercial equipment --- hundreds of pictures with detailed information. A valuable information source for the radio historian. $6.95 for the handbook and $9.95 for hardcover. Mail check to:

VINTAGE RADIO

Box 2045 Palos Verdes Pnsla., Ca. 90274

AWA NETS

PHONE

Sunday -- 12 noon
3903 Kc.

Tuesday -- 8 P.M.
3865 Kc.

CW -- 3584 Kc.

8 P.M. First Wednesday of each month

4 P.M. Daily

E.D.S.T.

WITH THE COLLECTORS

Lauren A. Peckham
Ormiston Road
Breesport, N.Y. 14816

Report on activity at amateur museums

GREG DOCKTER (Bismarck, N.D. was a groomsman at a friend's wedding and received a DeForest DV-5 Canister as a gift ! He also has a Zenith 4R and a Supertone 8 tube superhet with Remler variables.

FLOYD LYONS (San Francisco) has added a reference material such as JAN Spec. Manual (1943) and W.E. Tube Bulletins (1937) which will be useful with his tube collection. Recent additions include DeForest Type T and Moorhead ER both of which are tubular double-ended.

LEO GIBBS (Kettering,Ohio) found some nice items at a farm auction: Crosley ACE 3-B and a Bunnell crystal det. with porcelain base.

TOM THOMSON (Iron Mountain,Mich.) is writing a new book on the history of radio up to 1941.

ALEX BLACK (Syracuse, N.Y.) has an early crystal radio with slide tuner.

GEORGE HAYMANS (Gainesville, Ga.) is the lucky owner of a WW-1 DeForest BC-14A Sig. Corp crystal receiver.

JOE PAVEK (Minneapolis,Minn.) is in the process of moving his museum but did find time to locate a Comet "Pro", Federal 61, Aeriola Sr., and a Grebe Synchrophase to his collection.

FRED RICE (Phila. Pa.) did very well at a flea market where he found an AK-3945 breadboard and a Comet "Pro".

DEX DEELEY (Rochester) just about completed his early Westinghouse collection with addition of an Aeriola amplifier.

DICK RANSLEY (Sodus,N.Y.) located an unusual Crosley model XV which seems to be an early version of the XJ.

ARTHUR BARDISH (Grand Rapids,Mich.) is now the new owner of a rare AK Mod. 19.

LARRY FLEGLE (Tampa,Fla.) received the idea graduation gift from the xyl: a Radiola III with bal. amp. and UZ-1325 horn plus a Radiola 25 !

DAVID PECKHAM (Breesport,N.Y.) had only to open the kitchen door at the recent AWA Spring Meet where he bought an early W.E. 203-A and British xmitting tube.

FELLOWS: Please try and send your material for the Column as soon as you receive the Bulletin. That way no one will be left out as our deadline vaies due to the new 3rd Class mailing. Next deadline is SEPT. 15

SMASHING SUCCESS!

INDIANA HISTORICAL RADIO SOCIETY and A.W.A. MEET
Purdue University

Members in the mid-west missed a great time if they failed to attend the recent IHRS/AWA "meet". The usual good programming with excellent air conditioning facilities made it a most enjoyable weekend for members from 12 different states. Theme for this year's meet was "Maj. Armstrong and his work". This certainly was true since there were over 150 receivers on display using Armstrong's regenerative circuit ! Glen Rogers put the final touch to the event by providing huge picture of the well known inventor.

CROSLEY

Powell Crosley started in business with a small wood working factory where he manufactured phonograph cabinets. The slump of 1920 brought business almost to a standstill but fortunately the new interest in radio provided an outlet for his wooden radio cabinets.

Interest in the radio field increased to the point where he started to make radio components other than cabinets: the now rare porcelain socket and the book type variable condenser made out of wood. More components and eventually the purchase of the Precision Equipment Company.

We all know the story from then on -- one of the world's largest radio manufacturers and a leader in low price receivers.

(Above is a summary of the excellent slide/commentary program given at the Indiana Historical Radio Society Meet (Purdue) in June by John Bruning and Elmer Shubert. It is an up-dated version of a similar presentation given by Jack Gray nearly 10 years ago. Your Editor was so impressed with the show that he has asked John and Elmer if they would do it again at a future A.W.A. National Conference....)

ABOUT THE COVER

Another classic cover by artist Clyde Darr, 8ZZ --- beginning of the great DX era: Nov. '27, QST.

RADIO MUSIC IS DISTORTED, SAYS EDISON

Noted Inventor Thinks Sets Are All Right for Speech, But That's All—Calls the Art a Fad and Believes Novelty Soon Will Wear Off and Phonograph Reclaim Its Own — Others Disagree

By Thomas A. Edison

(The World-Famous Inventor)

People interested in radio say that radio reproduction of music is good. Music on the radio is very poor because it is badly distorted. I quite approve of radios and think that there should be one in every home, but at the same time the set should not be used for musical purposes. It is good for news and for reports of ball games, boxing matches and speeches, where distortion is not noticeable.

There is no money for a dealer in it. We have made a survey of Edison dealers who have sold radios and find that they are rapidly giving them up. The mechanism is too complicated for the average man to fix, once it gets out of order, and the dealer is called in again and again, with the result that he loses both time and money.

The chief difference between the radio and the phonograph is in distortion. The average American family has an inborn love of good music and as the radio fad passes the people will once more turn to the phonograph.

The radio is a big and a new thing, but after the novelty has worn off the phonograph will reclaim its own.

This news clipping of the 1920's may be of interest to AWA members. It shows even the greatest may be wrong occasionally -- or could he have reason to make these remarks?

The Other Side of it

Radio engineers disagree with Mr. Edison.

Frank Reichmann, acoustical engineer with long experience in both phonograph and radio reproduction, said:

"I cannot believe that a man of Mr. Edison's intelligence and experience could be so badly misinformed as to condemn a tremendously growing and healthy American industry in this wholesale manner. Actually the best modern radio devices give distinctly better music than the finer phonographs. Radio dealers have made money and they are making money now, certainly more than phonograph dealers, and they are going to continue to make money on radio. Generally the public is entirely satisfied with the advancements in radio as evidenced by the increase in our business alone of over five hundred per cent over last year. We will be glad to send Mr. Edison a modern radio set for test."

Hugo Gernsback, editor of "Radio News," said that a phonograph record, after being played a couple of hundred times, was incapable of rendering good music, even on the best phonograph ever made. He said the best radio sets distort less than the best phonographs.

Herman Bernard, managing editor of Radio World, said: "Mr. Edison is one of the greatest inventors the world ever produced and therefore any comparison he makes between radio and the phonograph is very interesting. It must be remembered Mr. Edison is a venerable man, hence we should listen to him with veneration, and respect him for his greatness, and not hold it against him if some of his remarks are contradicted by metered tests. The new phonographs distort less than the old radios, but the new radios distort less than the new phonographs. It is not clear which pair Mr. Edison compared."

Cites Trade Enthusiasm

"This is radio's greatest year, Thomas A. Edison to the contrary notwithstanding," said G. Clayton Irwin, Jr., general manager of the Chicago Radio Show. "In New York more than 10,000 dealers visited the Radio World's Fair. "They were all enthusiastic. Last year some of them were pessimistic. The only thing they are pessimistic about is the ability of the manufacturers to deliver orders. A number of the largest factories are now working night shifts in order to meet the demand.

"If the public were not delighted with radio and the programs that are now being transmitted daily, with the fine receivers, cabinets, and accessories now on the market, this would not be true."

RUMORS TRUE!

Yes, the manufacturing of vacuum tubes will soon be something of the past but this news article released by Western Electric tells of continuation in tube making at one of their plants. W.E. gear seems to have a long attrition rate -- hence the need for tube replacement....This reminds us of a note received from a member a few years back telling of an installation that was being replaced with modern equipment. A check on the tubes being removed indicated they had been in service for over 40 years !

Western Electric

No such thing as a brand-new antique? A contradiction in terms? The people in Western Electric's miscellaneous electron tube organization will fight Webster's down the line on that one. It's their job to make the antiques -- vacuum tubes -- while their colleagues at WE's Kansas City Works in Missouri turn out modern products like microwave transmission systems, diodes and transistors.

In fact, it was the advent of that last product, the transistor, that was responsible for the vacuum tube's "promotion" to antique status. There are six families of vacuum tubes: general purpose, repeaters, ballast lamps, small runners, carrier tubes and mercury rectifiers. In 1947, the year in which the transistor was invented by Bell Labs scientists, each family merited its own production line. As transistors replaced vacuum tubes, the six production lines were consolidated into one.

Today, about 30 miscellaneous tube people at the Kansas City Works are generalists who can turn out nearly 100 different kinds of vacuum tubes. Assembler Linda Campbell, 10-year veteran of the line, noted that it's not uncommon to get the call for small quantities of tubes that haven't been built for as many as 10 years.

Jean Lorcher uses a special exhaust machine to pump air out of tubes and pump in any number of different gases.

Why is the Kansas City Works in the antique business? Supervisor Geza Kelemen explained: "Western Electric generally furnishes replacement parts on any piece of communications gear it has made for as long as the customer has need for those parts." The miscellaneous tube line is proof of that effort -- some of the tubes the line produces date back to the World War I era.

Assistant manager Lee Bray summed up the role of the miscellaneous tube line: "If you own a car that was made 15 years ago, you'll have a heck of a time finding replacement parts for it. Western doesn't do business that way. We try to provide our customers replacement parts for as long as they need them.

W.E. Kansas City Works assembler Sharon Randall has to rely on a pair of tweezers to make a spot weld on a mount assembly.

RECENT RADIO and ENTERTAINER OBITUARIES

Alexanderson was GE radio pioneer

Dr. Ernst F.W. Alexanderson, inventor of the high-frequency alternator which gave America its start in the field of radio communication, was 97 years old when he died at his Schenectady, N.Y., home in May.

A contemporary of Steinmetz and Marconi, Dr. Alexanderson was an engineer whose creative talent led to the receipt of 322 patents during his 46-year GE career.

A native of Sweden, Alexanderson received an electrical-mechanical engineering degree from the Royal Institute of Technology in Stockholm in 1900.

At the Technical University in Berlin the following year for post-graduate study, he read a textbook by Dr. Charles P. Steinmetz and came to the United States later in 1901 to seek work with the author, GE's mathematical genius.

Among his notable radio developments were the magnetic amplifier, the electronic amplifier, the multiple tuned antenna, the anti-static receiving antenna and the directional transmitting antenna.

And it was his pioneering work that led to the first home television reception—in Alexanderson's house—in 1927 and the first public TV demonstration one year later in a Schenectady theater.

Dr. Alexanderson was a consulting engineer in the Company's General Engineering and Consulting Laboratory when he retired in 1948.

RAYMOND GUY, W4AZ, July 12, 1975
More details later.

NEW GEAR AT A.W.A.

TUBES: W2ZI, W2QO, W2WS, W2UG, W2GWT, W2GK, W2EB, W2RIZ, Warren Johnson, Gary Vierk and Lauren Peckham

ALARM SYSTEM: W3EFX

RECEIVER: Malcolm Nichols (ex-8AYM)

KEYS: W2GB

MOVIE FILM: W2ZH

TRANSMITTER GEAR: K2NP

PHONOGRAPH: W2UG

BOOKS: WA1HAU, W3AW, W2GK, W2UG and Bob Ryan , W1PNY, Edmundo Reyes

SCALE MODEL: W2ZI

MISC.: W2ZI, W1BYX, WA8ZOA, W2LV, W2WS, W3SW, W1IFU, W2AY, W2PZH, W2UG, W2EB, W2EMX, W3AW, Ev Berry and Stu Moffat

SPEAKERS: W3GD, W3SW

Philip Kayatt

82 years at Hackensack, N.J., pioneer in development of gas-filled tubes for lighting and radio communication. He had over 30 patents to his name and at one time worked for Dr. Lee DeForest.

H.H. SCOTT

Hermon Hosmer Scott, founder and former president of H.H. Scott, Inc. of Maynard, Mass., died recently in Newton, Mass., at the age of 66. He established his firm in 1947 and retired in 1972. The name H.H. Scott was among the handful of brands familiar to hi-fi equipment buffs during the early days of the industry. Mr. Scott held a number of patents, including those for the dynamic noise suppressor and RC oscillator.

Zenith's K. E. Hassel

Karl E. Hassel, Chicago radio industry pioneer and co-founder of Zenith Radio Corp., died Monday in Evanston Hospital at the age of 79.

Mr. Hassel, an Evanston resident, retired in 1973 from the Zenith board of directors after a 55-year association with the company. He and a friend, R.H.G. Mathews, began Chicago Radio Laboratory, Zenith's predecessor, on Mathews' kitchen table in 1918.

ARC TRANSMITTER

Members are still discussing the arc transmitter demonstration at the last Conference by Rod Melhuish and Bruce Boyd. A followup of their experimental work reveals that Rod has successfully voice modulated the transmitter with a hybrid homemade microphone.

A color photo reveals a beautiful desk type mike slightly larger than the normal. For good reason. Inside are six buttons in parallel formed by drilling six depressions in a solid block of carbon. Each depression is filled with carbon granules. The mike is assembled with a thin sheet brass diaphragm. This in turn is enclosed with a MICARTA case with large, finned aluminum heat sink attached to the rear !

The microphone has an average impedance of 8 ohms and will handle 1.5 ameres without heating. When connected to the output circuit of the arc transmitter it will modulate with recognizable speech. Too bad it wasn't available for the demonstration at the 1974 Conference...